## **AMENDMENTS TO THE CLAIMS:**

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This listing of claims will replace all prior versions and listings of claims in the application:

1. (Original) A transceiver system, comprising:

a transmitter portion arranged on a bottom layer of a multi-layer board, the transmitter portion capable of providing signals to a transmitter optical subassembly;

a receiver portion arranged on the bottom layer of the multi-layer board, the receiver portion capable of receiving signals from a receiver optical subassembly;

a high-voltage power supply arranged on a top layer of the multi-layer board, the high-voltage power supply providing a bias voltage for the receiver optical sub assembly; and a metallic ground plane arranged on a first intermediate layer between the top layer and the bottom layer, the metallic ground plane providing electrical isolation between the high-voltage power supply and the transmitter portion and the receiver portion.

- 2. (Original) The system according to claim 1, wherein the transmitter portion and the receiver portion are arranged in a split-ground arrangement.
- 3. (Original) The system according to claim 1, wherein a second intermediate layer having vias is arranged between the first intermediate layer and the top layer.
- 4. (Currently Amended) The system according to claim [[1]] 3, wherein a third intermediate layer having vias is arranged between the first intermediate layer and the bottom layer.
- 5. (Original) The system according to claim 4, wherein an interconnect layer is arranged between the first intermediate layer and the third intermediate layer.

- 6. (Original) The system according to claim 1, further including a microcontroller system arranged on the top layer and the bottom layer.
- 7. (Original) A transceiver system, comprising:

  means for receiving signals from a receiver optical subassembly;

  means for transmitting signals through a transmitter optical subassembly;

  means for generating a high-voltage bias for the receiver optical sub assembly;

  means for electrically isolating the means for generating the high-voltage bias

  from the means for receiving and the means for transmitting.
- 8. (Currently Amended) A method of isolating from a high voltage power supply providing a bias voltage for an optical assembly, comprising:

arranging the high voltage power supply on a top layer of a multi-stack circuit board;

arranging other circuitry on a bottom layer of the multi-stack circuit board; and arranging a shielding plane on an intermediate layer of the multi-layer circuit board.

- 9. (Original) The method of claim 8, wherein arranging other circuitry on the bottom layer includes arranging a receiver and a transmitter on the bottom layer.
- 10. (Original) The method of claim 8, further including providing a split ground between the high-voltage power supply and the other circuitry.
- 11. (Original) The method of claim 8, further including arranging a first intermediate layer between the top layer and the bottom layer, the first intermediate layer including vias to provide electrical contact with traces on the top layer.

- 12. (Original) The method of claim 11, further including arranging a second intermediate layer between the first intermediate layer and the intermediate layer, the second intermediate layer providing traces.
- 13. (Original) The method of claim 12, further including arranging a third intermediate layer between the intermediate layer and the bottom layer, the third intermediate layer including vias.
- 14. (Currently Amended) A transceiver, comprising:

  means for providing a bias voltage formed on a multi-layer board;

  means for receiving a signal <u>from an optical subassembly</u> formed on the multi-layer board;

means for transmitting a signal <u>through an optical subassembly</u> formed on the multi-layer board; and

means for isolating the means for providing a bias voltage from the means for receiving a signal and the means for transmitting a signal on the multi-layer board.